



Amendment Number II to the 2023-2024 HCC Bulletin

RESIDENCY REQUIREMENTS

Holmes Community College follows guidelines set forth by the Mississippi Community College Board to classify students as Mississippi residents or out of state students based upon applications and documents on file in Admissions. Students who are classified as out of state students will be charged out of state fees. Students who wish to prove Mississippi residency by providing approved residency documentation must do so by deadlines set forth by the Admissions and Records Department in order for out of state fees to be removed. If a returning student has a break in enrollment with Holmes Community College, updated residency documents will be required. Acceptable documentation and deadlines can be found on the Admissions page of the Holmes website.

Industrial Studies Pathway**Engineering Technology****Industrial Technology****First Year**

First Semester		Second Semester	
Graphic Communications	ENT 1113	Advanced CAD	ENT 2343
Principals of CAD	ENT 1313	Comp Numerical Contrl	ENT 2363
Basic Electric/Electron	ENT 1813	Program Logic	ENT 2613
Industrial Welding	ENT 2323	*Approved Technical Electives	6
Smart Start Pathway	SSP 1002		
*Approved Technical Elective	3		
Total	17 hrs.	Total	15 hrs.

A Technical Certificate may be earned at this point

Second Year

First Semester		Second Semester	
Materials	ENT 1213	English Composition I	ENG 1113
Statics/Strenghths of Mat	ENT 2253	English Composition II	ENG 1123
Preventive Maintenance	ENT 2833	OR Public Speaking I	SPT/COM1113
*Approved Technical Electives	6	OR Social/Behavioral Science	3
		College Algebra	MAT 1313
		OR Natural Science w/Lab	4
		Humanities/Fine Arts	3
		Social/Behavioral Science	3
Total	15 hrs.	Total	15/16 hrs.

An Advanced Technical Certificate may be earned at this point.

An AAS Degree may be earned at this point.

The Industrial Technology program is designed for students who want to prepare for employment leading to supervisor, administrative, and other management positions in the production areas of industry or into industrial distribution, wholesale level sales, distribution and/ or installation of industrial products and equipment. Upon successful completion of the curriculum, the graduate may earn a Technical Certificate, Advanced Technical Certificate or an Associate of Applied Science Degree (AAS) in Industrial Technology. The curriculum also has the option of transfer to a four-year university, Mississippi State University, offering a related course of study from the College of Education, thereby leading to a Bachelor of Science Degree (BS) in Industrial Technology.

*Approved Technical Electives: DDT 1183, 1213, 2263, ENT 1123, 1154, 1183, 1223, 2243, 2263, 2443, 2723, 2733, 291(1-3), Work Based Learning.

Assistance with math and/or reading will be available on a co-curricular basis to certificate-seeking students who lack entry-level skills in math and/ or reading.

**Enrollment in a minimum of 15 hours each semester is recommended for eligibility for state aid, institutional scholarships, and the tuition break.

Industrial Studies Pathway
Industrial Mechanics and Maintenance Technology
Electro-Mechanical Technology

First Year

First Semester		Second Semester	
CAD I	DDT/ENT 1313	Fluid Power	IMM 1473
OR Ind Blueprint Read	IMM 1133	Industrial Electricity II	IMM 1823
IMM Core & Safety	IMM 1113	Manufacturing Skills	IMM 1933
Indus. Control Systems	IMM 1483	OR Intro to Ind Maint	IMM 1213
Industrial Electricity I	IMM 1813	Smart Start Pathway	SSP 1002
*Approved Technical Elective	3	*Approved Technical Electives	6
Total	15 hrs.	Total	17 hrs.

A Technical Certificate may be earned at this point.

Second Year

First Semester		Second Semester	
Equip Main/Trouble	IMM 2113	English Composition I	ENG 1113
Electronic Motion Control	IMM 2433	English Composition II	ENG 1123
PLC Multi-Platform	IMM 2513	OR Public Speaking I	SPT/COM1113
OR Social/Behavioral Science		3	
*Approved Technical Elective	6	College Algebra	MAT 1313
		OR Natural Science w/Lab	4
		Humanities/Fine Arts	3
		Social/Behavioral Science	3
Total	15 hrs.	Total	15-16 hrs.

**An Advanced Technical
Certificate may be earned
at this point.**

**An AAS Degree may be
earned at this point.**

Electro-Mechanical Technology is a technical program designed to prepare students for entry-level employment as multi-skilled industrial maintenance technicians. Electro-mechanical technicians are responsible for assembling, installing, and maintaining/repairing electrical, mechanical, and automated equipment used in manufacturing or industrial environment. Students receive basic instruction in a wide variety of areas including safety, machinery maintenance and trouble-shooting/service, blueprint reading, basic machining, fundamentals of industrial electricity, CAD, fluid power, industrial controls, and PLC programming.

*Approved Technical Electives: IMM 1143, IMM 1223, IMM 1234, IMM 1243, IMM 1253, IMM 1373, IMM 1514, IMM 1614, IMM 1733, IMM 1913, IMM 1923, IMM 2123, IMM 2613, IMM 2623, WBL 1913, WBL 1923, or other technical or academic elective approved by advisor.

Assistance with math and/or reading will be available on a co-curricular basis to certificate-seeking students who lack entry-level skills in math and/or reading.

Enrollment in a minimum of 15 hours each semester is recommended for eligibility for state aid, institutional scholarships, and the tuition break.

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Revise “Engineering Technology” Courses (revisions may include changes to course number and/or title and/or description)

ENT 1313 – Principles of CAD.

This course will use CAD to draw various problems in engineering related areas. Emphasis will be placed on the operations of the CAD system to solve drafting problems. Two hours lecture. Two hours laboratory. Three hours credit.

ENT 1813 – Basic Electricity & Electronics.

This course is designed to give the student instruction in terminology and basic principles of electricity, use of test equipment, safety practices for working around and with electricity, and basic electrical procedures. Two hours lecture. Two hours laboratory. Three hours credit.

ENT 2253 – Statics & Strengths of Material (Prerequisite: MAT 1313 or Consent of Instructor).

Study of forces acting on bodies, movement of forces, stress of materials, basic machine design; beams, columns, and connections. Two hours lecture. Two hours laboratory. Three hours credit.

ENT 2343 – Advanced CAD (Prerequisite: ENT 1313).

This course is designed to give the student a continuation of CAD. Emphasis is placed on the user coordinate system and 3D modeling. Two hours lecture. Two hours laboratory. Three hours credit.

ENT 2443 – Principles of Manufacturing Management.

This course will include a study of manufacturing processes and materials. A problem solving approach will be used, emphasizing the context of the manufacturing business and the complexities to be addressed. Two hours lecture. Two hours laboratory. Three hours credit.

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Add New Courses Under “Engineering Technology” Section

ENT 2733 – Fluid Power.

Instruction in the basic principles of hydraulics and pneumatics and the inspection, maintenance and repair of hydraulic and pneumatic systems. Two hours lecture. Two hours laboratory. Three hours credit.

ENT 2833 – Preventive Maintenance.

This course includes instruction in basic maintenance and troubleshooting techniques; use of technical manuals and test equipment; and inspection, evaluation, service, and repair of equipment. Two hours lecture. Two hours laboratory. Three hours credit.

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Add New Course Under “Industrial Mechanics and Maintenance Technology” Section

IMM 1234 – Precision Machining Operations.

This course includes instruction related to the safe and proper use of various precision tools. The course also includes instruction in the use of drill presses, engine lathes, and milling machines. Two hours lecture. Four hours laboratory. Four hours credit.

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Revise “Industrial Mechanics and Maintenance Technology” Courses (revisions may include changes to course number and/or co/prerequisite and/or description)

IMM 1133 – Industrial Maintenance Blueprint Reading.

Blueprints, schematics, and plans used in industrial maintenance including instruction in nomenclature, different views, and symbols and notations. Two hours lecture. Two hours laboratory. Three hours credit.

IMM 1153 – Electrical Industrial Maintenance I.

This course includes Industrial Safety, Introduction to the National Electric Code®, Electrical Theory, Alternating Current, E&I Test Equipment, and Flow, Pressure, Level, and Temperature. One hour lecture. Four hours laboratory. Three hours credit.

IMM 1163 – Electrical Industrial Maintenance II.

This course includes process mathematics, hand bending, tubing, clean purge, and test tubing and piping systems, instrument drawings and documents (part one), conductors and cables, and conductors terminations and splices. One hour lecture. Four hours laboratory. Three hours credit.

IMM 1223 – Power Tool Applications.

Instruction in terminology and basic principles of power tools equipment, safety practices for working around and with power tools, and basic power tool procedures. One hour lecture. Four hours laboratory. Three hours credit.

IMM 1243 – Mechanical Industrial Maintenance I.

This course includes advanced trade math, precision measuring tools, installing bearings, and installing couplings. One hour lecture. Four hours laboratory. Three hours credit.

IMM 1273 – Industrial Maintenance Electrical and Instrumentation Level I (Part I).

This course includes basic tools of the trade, fasteners and anchors, oxyfuel cutting, gaskets and packing, and craft-related mathematics. One hour lecture. Four hours laboratory. Three hours credit.

IMM 1283 – Industrial Maintenance Electrical and Instrumentation Level I (Part II).

This course construction drawings, pumps and drivers, introduction to valves and test equipment, material handling, mobile and support equipment, and lubrication. One hour lecture. Four hours laboratory. Three hours credit.

IMM 1323 – Motor Control Systems.

This course includes the Installation of different motor control circuits and devices. Emphasis is placed on developing the student's ability to diagram, wire, and troubleshoot the different circuits and mechanical control devices. Two hours lecture. Two hours laboratory. Three hours credit.

IMM 181(3-4) – Industrial Electricity I.

Instruction in terminology and basic principles of electricity, use of test equipment, safety practices for working around and with electricity, and basic electrical procedures. Two hours lecture. Two to four hours laboratory. Three to four hours credit.

IMM 1823 – Industrial Electricity II.

Advanced skills and knowledge associated with electrical systems in an industrial setting. Content includes instruction in the National Electrical Code, electrical circuits, motors, and estimating expenses for a given project. Two hours lecture. Two hours laboratory. Three hours credit.

IMM 2423 – Solid State Motor Control.

This course includes principles and operation of solid state motor control. Additionally, the course includes the design, installation, and maintenance of different solid state devices for motor control. Two hours lecture. Two hours laboratory. Three hours credit.

IMM 2623 – Advanced Programmable Logic Controllers.

Advanced PLC course that provides instruction in the various operations, installations, and maintenance of electric motor controls. Also, information in such areas as sequencer, program control, introduction to function blocks, sequential function chart, introduction to HMI, and logical and conversion instructions. Two hours lecture. Two hours laboratory. Three hours credit.

HCC Bulletin Pages 354-360**Delete Courses Under “Industrial Mechanics and Maintenance Technology” Section**

ENT 2273 – Facilities Planning

ENT 2363 – Computer Numerical Control

INT 1214 – Fluid Power

INT 2114 – Control Systems I

MFT 2113 – Manufacturing Process I

MFT 2123 – Manufacturing Process II

MFT 2213 – Organizational Behavior

MFT 291(1-3) – Special Problem in Automation and Control Technology

ROT 2413 – Automated Manufacturing Controls

ROT 2613 – Mechanical Systems

I certify the above amendment is true and correct in content and in policy.



Dr. Jenny Jones, Vice President for Academic Programs

July 23, 2023